

**Amendment to the Claims:**

The listing of claims will replace all prior versions, and listings of claims in the application:

**Listing of Claims:**

---

1-2 (Cancelled) Without disclaimer or prejudice.

3. (New) A wireless communication system for automatically setting a channel frequency and a tone squelch frequency comprising:

an antenna which receives information signals modulated on a channel;

a duplexer, coupled to the antenna, which passes the information signal received by the antenna;

an amplifier and filter, coupled to the information signal passed by the duplexer, which passes only a selected frequency band from the information signal passed by the duplexer;

a mixer, coupled to the selected frequency band passed by the filter and to a local oscillator producing a local oscillator signal, which provides a mixed signal from the selected frequency band and the local oscillator signal;

a demodulator, coupled to the mixed signal, which demodulates the mixed signal to produce a demodulated signal;

a squelch circuit, coupled to the demodulated signal and to a transmit signal, which generates a sound signal from the demodulated signal or combines the

transmit signal with a tone squelch signal provided by the tone squelch circuit for providing a transmission of the transmit signal;

a transmit modulator, coupled to the combined transmit signal and tone squelch signal, which modulates the combined transmit signal and tone squelch signal to generate a transmit modulator signal which is transmitted by the antenna; and

a controller, coupled to a code input, a display for displaying a code provided by the code input and a memory which stores channel frequency codes and tone squelch frequency codes and converts code inputs from the code input into a channel frequency code corresponding to a transmit frequency used to transmit the transmit signal and into a tone squelch frequency code corresponding to a tone squelch frequency.

AI  
Cont

4. (New) A method for automatically setting a channel frequency and a tone squelch frequency in a wireless communication system for transmission of modulated information comprising steps of:

storing channel frequency codes and tone squelch frequency codes in a memory;

inputting data, corresponding to a specified channel frequency code and a specified tone squelch frequency code, through a code input, during a waiting mode of a system;

converting the wireless system into a transmit mode of operation after the inputting data;

using the data to set a frequency code and a tone squelch frequency code after the converting the wireless system into the transmit mode; and

*AI  
Conc* selecting the channel frequency and a modulation frequency used during the transmit mode to transmit the modulated information according to the frequency channel code and the tone squelch frequency code and transmitting the modulated information according to the modulating frequency from a modulator through a duplexer to an antenna.

---